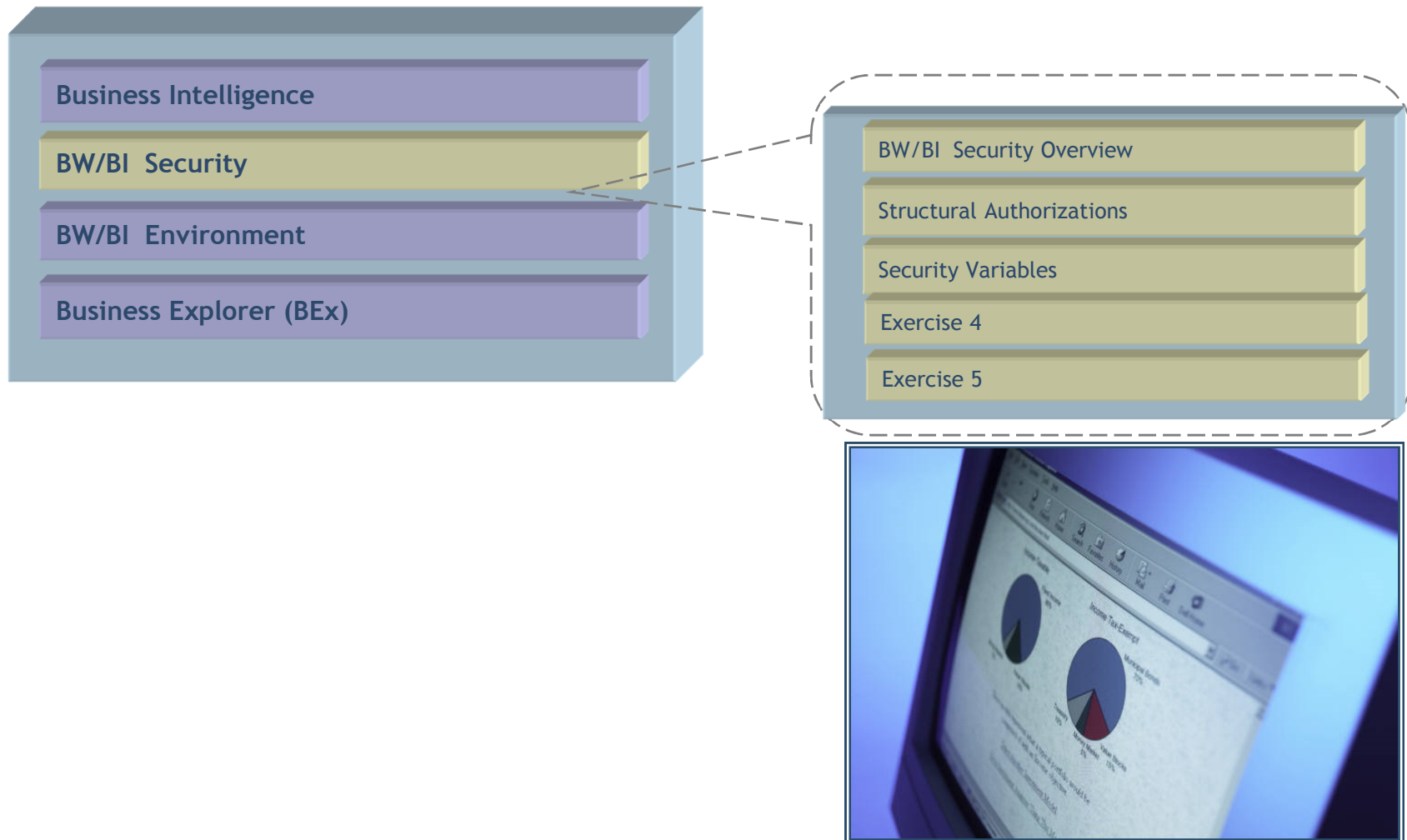# SAP Business Warehouse/Business Intelligence Reporting

BW/BI Security

Washington State HRMS Business Warehouse/Business Intelligence (BW/BI)

BW/BI Power User Workshop Materials

General Topics – BW/BI Power Users

Section 8

BW/BI Security

The following section provides an overview of BW/BI Security.

| Business Intelligence |
| BW/BI Security |
| BW/BI Environment |
| Business Explorer (BEx) |

| BW/BI Security Overview |
| Structural Authorizations |
| Security Variables |
| Exercise 4 |
| Exercise 5 |

BW/BI Security Overview

The ability to access BW/BI reports, specific functions, and data within the BW/BI environment is controlled by HRMS BW/BI Security:

1. BW/BI User Role – The ability to access specific functions in BW/BI is controlled through roles. Agency HRMS BW/BI users will be mapped to either a "BW/BI End User" or "BW/BI Power User" role. All BW/BI users can access reports via the HRMS Portal. Only Power Users can develop ad hoc queries against data available within the BW/BI structures.

2. BW/BI InfoProvider Role – The ability to access BW/BI data structures (InfoProviders) is controlled by a BW/BI InfoProvider Role. Agency HRMS BW/BI users will be mapped to either an "HR/Payroll/Time data" – or- "HR/Payroll/Time with Financial data" – or – "Financial data only" – or – "HR/Payroll/Time with Grievance data" – or – "Grievance data only" InfoProvider Role.

3. BW/BI Data Security – The ability to access report results is controlled through the organization structure within the security and role mapping setups. BW/BI data structures apply an additional level of data security for specific values such as SSN, Name, etc.

Structural Authorizations

BW/BI Data Security

BW/BI Data Security is based on Structural Authorizations.

 ➢ Structural Authorizations are defined in HRMS (SAP R/3) and are loaded to the BW/BI on a nightly basis. Structural Authorizations restrict the display of data based on the user's organization structure within the security and role mapping setups.

 ➢ Some InfoObjects within BW/BI are considered confidential (for example, SSN and Name). BW/BI Security will check Structural Authorizations to ensure the user receives results for only the data they have access to.

Structural Authorizations

In BW/BI , there are two characteristics identified as confidential InfoObjects:

1. Employee (0EMPLOYEE)
2. Person (0PERSON)

BW/BI security will check Structural Authorizations when these two characteristics are included in queries and reports. This will ensure the user receives results for only the data they have access to.
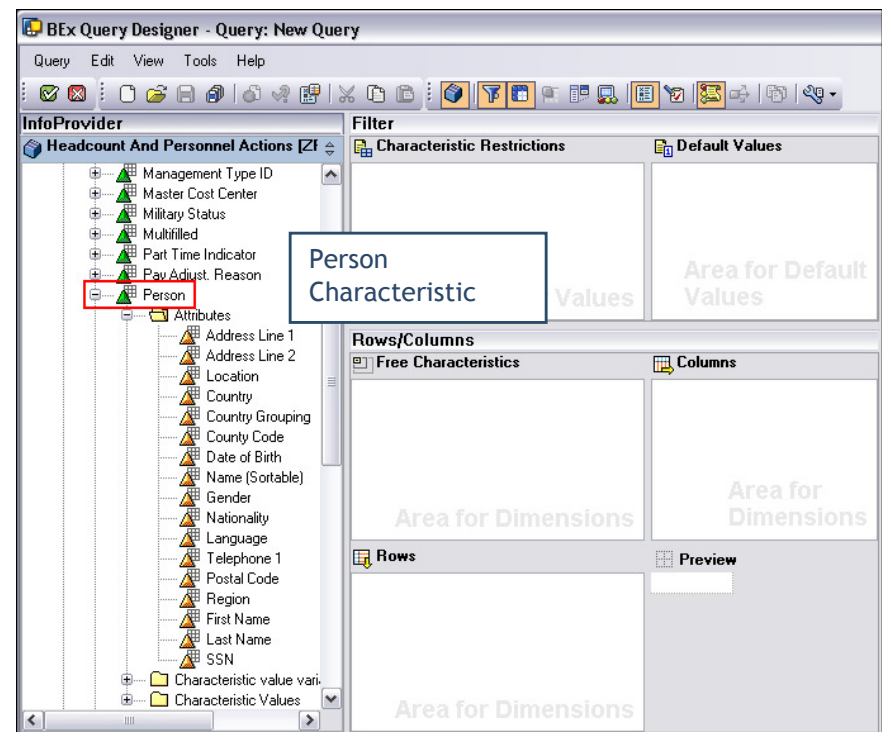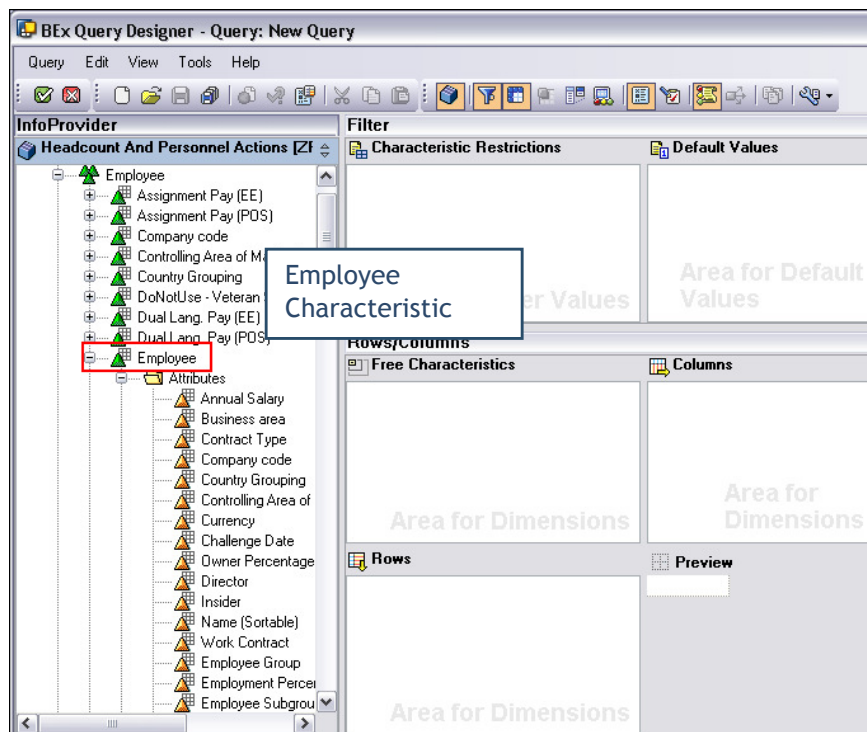
Structural Authorizations

Employee and Person have display-only attributes that are located in the Attributes folder of the characteristic. These display-only attributes can only be included in a query or report if Employee or Person characteristics are also included.

Display-only attributes of Employee

Display-only attributes of Person

Security Variables

Security Variables are variables in a query or report that check Structural Authorizations. If Employee or Person characteristics are included in a query or report, a Security Variable must also be included.

When a Security Variable is included with the Employee or Person characteristics, BW/BI Security will check Structural Authorizations. This will ensure the user receives results for only the data they have access to.

If a Security Variable is not included with the Employee or Person characteristics, BW/BI Security will return an authorization error for users who do not have statewide access.

An example of the authorization error is displayed below:
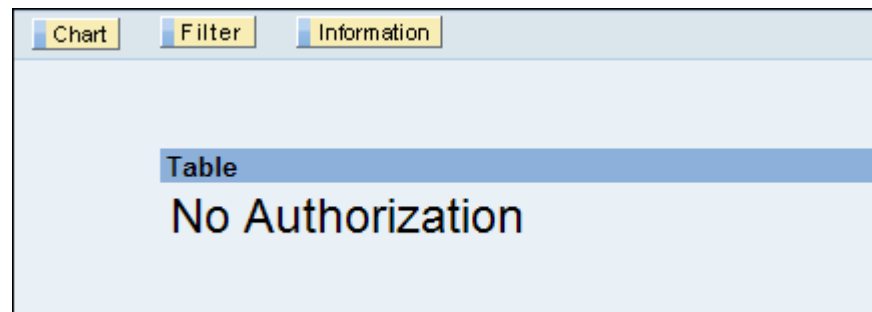
Security Variables

Employee and Person is a "No Display" type of Security Variables:

➢ No Display: Does not prompt users to select an Employee or Person prior to running the query. Automatically returns data the user has security access to.

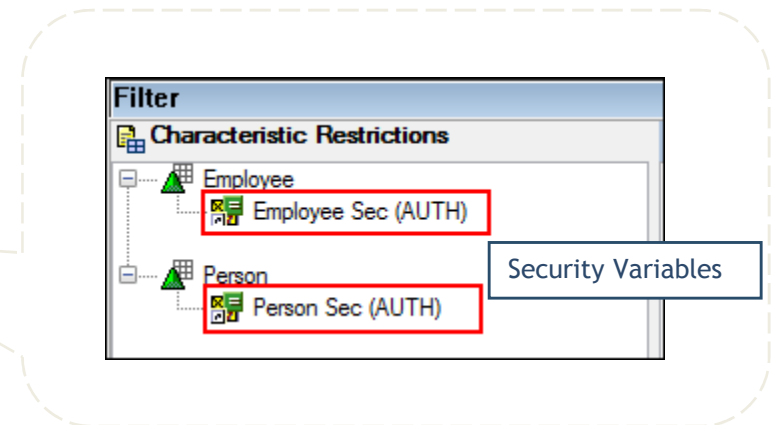Security Variables for Employee and Person include:

➢ Employee (0EMPLOYEE):

▪ No Display: "Employee Sec (AUTH)"

➢ Person (0PERSON):

▪ No Display: "Person Sec (AUTH)"
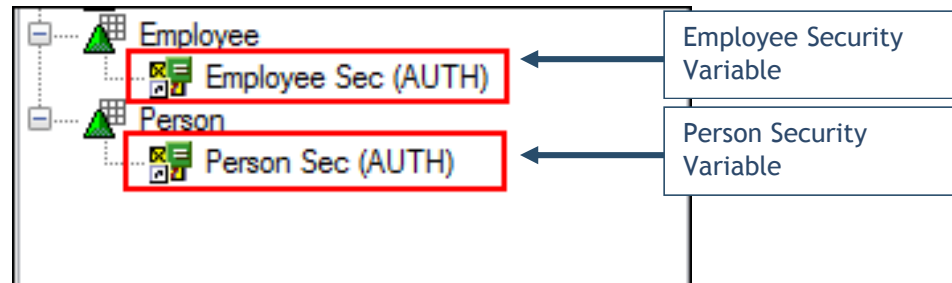
Security Variables

The example below shows the results of using Employee and Person characteristics with Security Variables.

Security Variables

If the user has authorization to view only one employee, only one employee's data will be displayed.

Sample of an ad hoc query with Confidential InfoObjects and Security Variables

Result: Return data for employees the user has access to

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Exercise 4 – Adding Confidential InfoObjects

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Exercise 5 – Deleting an Existing Ad Hoc Query

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